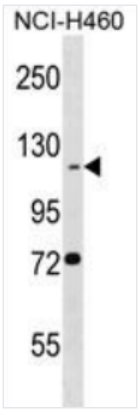
# BEND3 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | BEND3, Polyclonal Antibody |
| **Full Product Name** | BEND3 Antibody (C-term) |
| **Product Gene Name** | anti-BEND3 antibody |
| **Product Synonym Names** | BEN domain-containing protein 3; BEND3; KIAA1553 |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human (Predicted Reactivity: Mouse) |
| **Form/Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. |
| **Purity/Purification** | This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Specificity** | This BEND3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 629-657 amino acids from the C-terminal region of human BEND3. |
| **Preparation and Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Antibody/Peptide Pairs** | BEND3 peptide (MBS9221848) is used for blocking the activity of BEND3 antibody (MBS9212420) |
| **Molecular Weight** | 94475 |
| **Immunogen Sequence Positions** | 629-657 |
| **3D Structure** | ModBase 3D Structure for Q5T5X7 |
| **Function** | Transcriptional repressor which associates with the NoRC (nucleolar remodeling complex) complex and plays a key role in repressing rDNA transcription. The sumoylated form modulates the stability of the NoRC complex component BAZ2A/TIP5 by controlling its USP21-mediated deubiquitination (PubMed:21914818, PubMed:26100909). Binds to unmethylated major satellite DNA and is involved in the recruitment of the Polycomb repressive complex 2 (PRC2) to major satellites (By similarity). Stimulates the ERCC6L translocase and ATPase activities (PubMed:28977671). |
| **Cellular Location** | Nucleus. Nucleus, nucleolus. Note=In the nucleus, observed in heterochromatic foci containing CBX1, CBX3, CBX5 and histone H3 trimethylated at 'Lys-9'. Released from chromatin during decondensation. Association with heterochromatin does not depend on sumoylation. |
| **Tissue Location** | Expressed at least in heart, kidney, liver, ovary and spleen, with highest levels in spleen and lowest in heart Expressed on the surface of T-cells. |
| **Applications Tested/Suitable for anti-BEND3 antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-BEND3 antibody** | WB~~1:1000<br>E~~Use at an assay dependent concentration |
| **Related Product Information for anti-BEND3 antibody** | MBS9212420 is an antibody targeting BEND3. Also known as BEND3 Antibody (C-term). Reactive in Human (Predicted Reactivity: Mouse). Host: Rabbit. |
| **Product References and Citations for anti-BEND3 antibody** | Vertegaal, A.C., et al. Mol. Cell Proteomics 5(12):2298-2310(2006)<br>Olsen, J.V., et al. Cell 127(3):635-648(2006)<br>Strausberg, R.L., et al. Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903(2002) |

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| **Other Notes** | Small volumes of anti-BEND3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-BEND3 antibody**
BEND3 Antibody (C-term) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the BEND3 antibody detected the BEND3 protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BEND3. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 122937295 |
| **NCBI GeneID** | 57673 |
| **NCBI Accession #** | NP_001073919.1 |
| **UniProt Primary Accession #** | Q5T5X7 |
| **UniProt Secondary Accession #** | Q9HCL9; A2RRH2 |
| **UniProt Related Accession #** | Q5T5X7 |
| **GenBank Nucleotide #** | NM_001080450.2 |
| **NCBI Official Full Name** | BEN domain-containing protein 3 |
| **NCBI Official Synonym Full Names** | BEN domain containing 3 |
| **NCBI Official Symbol** | BEND3 |
| **NCBI Official Synonym Symbols** | KIAA1553 |
| **UniProt Protein Name** | BEN domain-containing protein 3 |
| **Protein Family** | BEN domain-containing protein |
| **UniProt Gene Name** | BEND3 |
| **UniProt Synonym Gene Names** | KIAA1553 |
| **UniProt Entry Name** | BEND3_HUMAN |
| **NCBI Protein Information** | BEN domain-containing protein 3 |
| **UniProt Comments for BEND3** | BEND3: Involved in transcription repression. {ECO:0000269\|PubMed:21914818}. Interacts with HDAC2 and HDAC3, but not HDAC1. Interacts with SALL4. {ECO:0000269\|PubMed:21914818}<br><br>Chromosomal Location of Human Ortholog: 6q21 |
| **Research Articles on BEND3** | **1.** Three basic amino acid residues located in the N-terminal region of BEND3 (BEND356-58, KRK) are essential for its nuclear localization, suggesting that these residues play a role as a functional nuclear localization signals. |

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